TASK FORCE WEB

Developer Overview

July 9, 2002

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Topics

- **Agenda preview**
- **Overview of portals and portlets**
- **Integration planning decisions**
- **New developer’s guide and feedback**

Developer Agenda Topics

- **Topics progress from more general to more technical**
- **Remainder of today:**

Developer Overview	General
NEP Architecture	General
Types of Integration	General
UFS Interfaces	Technical
Building a UFS	Technical
Single Sign On (SSO) Perspective	Technical – Fleet
Advanced Topics (URL rewriting, Web services, security, CSS, error handling, transformations using XSL, …)	Highly Technical
Question & Answer Session	All

- **Tomorrow morning:**
  - **Case studies**

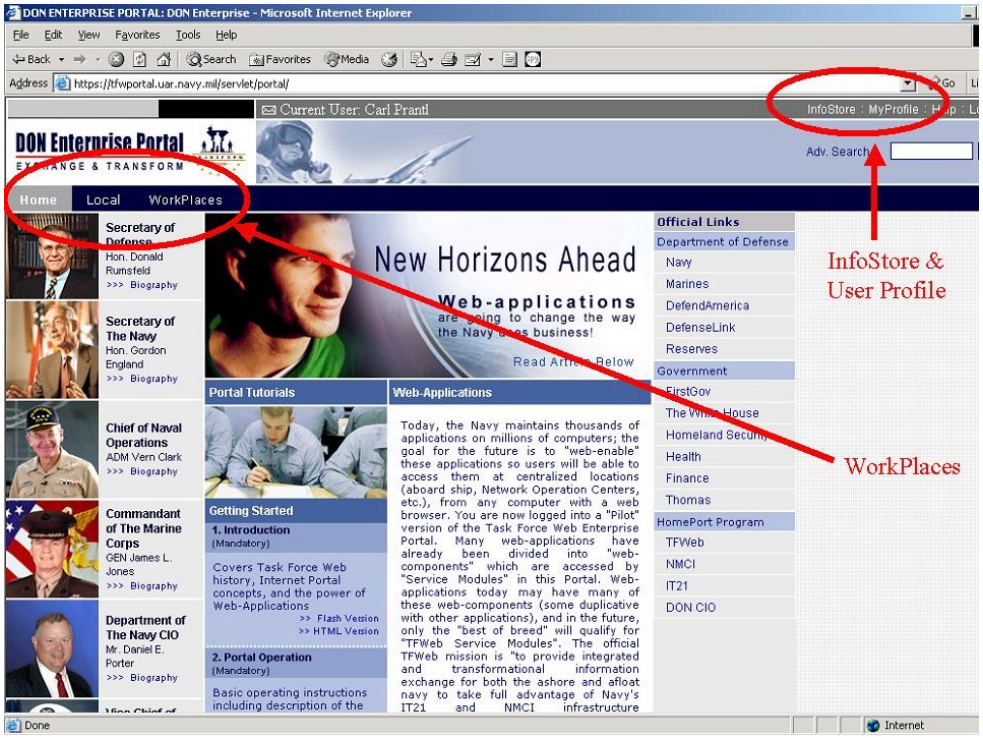
Objectives of a Portal

- **What does a portal do for a user?**
  - **Aggregation and categorization of content**
  - **Customizable for a users roles and responsibilities**
  - **Personalizable by a user to their work needs**
  - **Access to common tools and information**

- **What does a portal do for a developer?**
  - **Common look and feel support**
  - **Standard services for presentation and rendering**
  - **Access to aggregated services**
  - **Common identity authentication support**

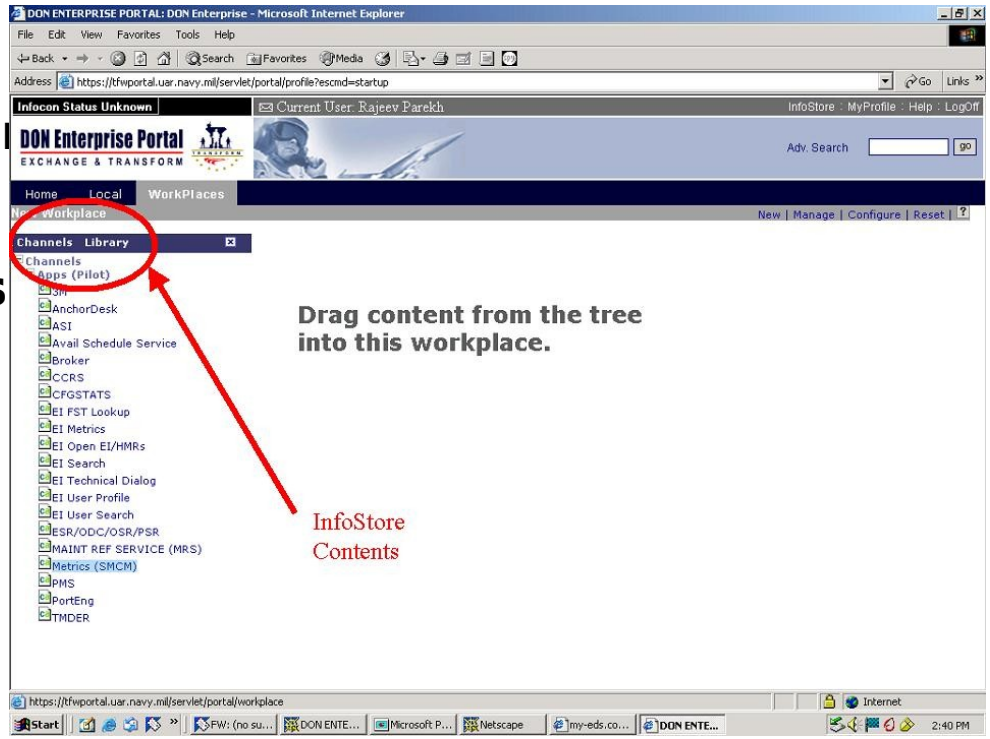
Navy Enterprise Portal (NEP)

- **NEP implements a portal interface for aggregation of content into workplaces**
- **Provides access to categorized content through the InfoStore**
- **Allows user personalization**
- **Supports common look and feel**
- **Provides customized content**



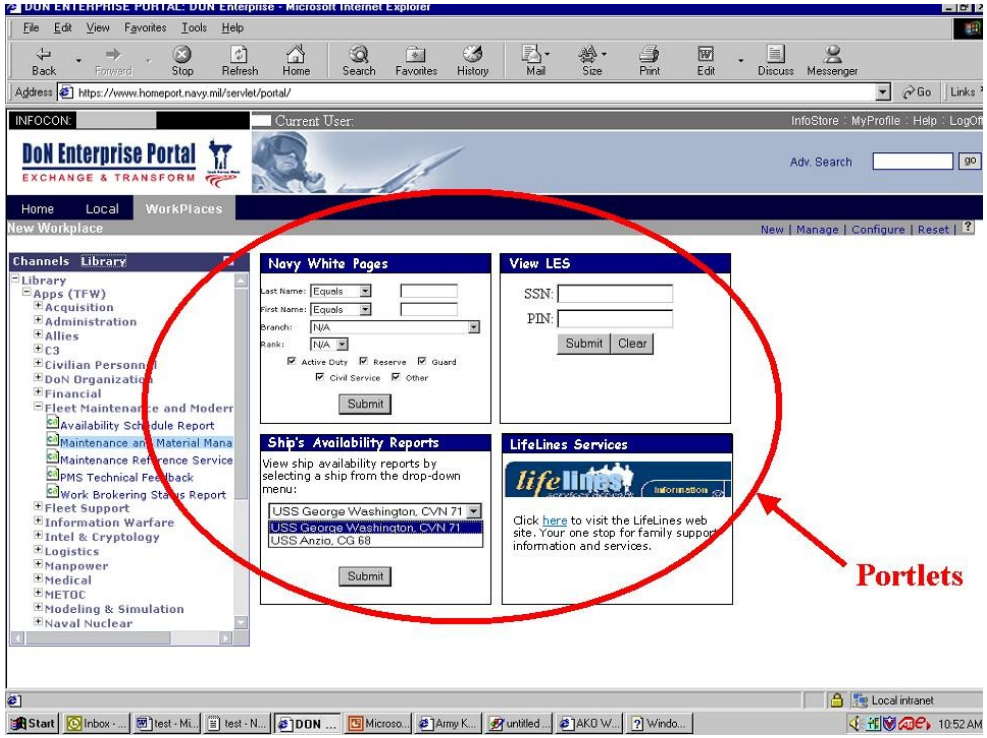
NEP Content Organization

- **Content is organized into categories based on 22 functional areas defined i SECNAVINST 5000.36**
- **Users can access services individually through the InfoStore or “drag and drop” content onto their desktop workspaces**
- **Virtual communities for pre-aggregated content are being developed**



What is a Portlet?

- **A Portlet is a visible, active window that users see within the portal**
- **A portlet is the integration point between the portal and an application or service**
- **Portlets can be implemented using many technologies - the key is usability through a shared portal workspace**



Integration Planning

- Several decisions are required
- The decisions are interdependent

Decision

Type of Integration

Content to Provide Through the Portal

Technologies to Use for Integration

Configuration Options

Design Decisions

Type of Integration

- **Choices are:**
  - **Reference integration**
  - **External content integration**
  - **Content integration**
- **Replaces old level 1, 2 and 3 integration**
  - **Level 1, 2 and 3 notation is no longer being used**
- **Discussed fully in “Types of Integration”**

Content Provided Through Portal

- **Decision includes:**
  - **What application content (information and/or services) is exposed to the user through the portal**
  - **How this content is presented to the portal user**
- **Driven by user (ashore and afloat) requirements**
- **Usability of the content or service (from the user's perspective) is an important factor**
- **Most usable presentation:**
  - **Presents content at proper summary level**
  - **Allows drill-down or access to additional information, if required**
  - **Uses a relatively compact portlet**
  - **Displays information that is immediately useful**

Integration Technologies

- **Major technology choices (currently):**
  - **Implement UFS as a Web Service or a simple Web module**
    - **Web service implies using SOAP and defining the Web service interface using WSDL**
  - **Returning markup (HTML) from the UFS or returning unformatted XML data**
    - **Returning XML requires using XSL to create a stylesheet to transform the data for presentation**
- **Note that choice of technologies and choice of integration type are independent decisions**
- **More information in “UFS Interfaces”, “Building a UFS”, “Case Studies”**

Configuration Options

- Static parameters (metadata) associated with the UFS
- May be specified by the developer; otherwise default values are used
- Some examples:
  - Flag indicating if UFS needs Portal-collected data (PRI data)
  - Flag indicating if Portal will rewrite URLs in UFS output
  - Flag indicating if Portal will insert cascading style sheet (CSS) reference in the UFS output
  - A Portal template identifier for specifying the color scheme used when displaying the UFS output
- More information in “UFS Interfaces”, “Building a UFS”, “Advanced Topics”, “Case Studies”

Design Decisions

- Decisions made by the UFS developer that affect the scope and responsibilities of the UFS
- Some examples:
  - Reporting UFS errors to the Portal
  - Using the Common Identity (portal logon id) in the UFS
  - Performing re-authentication of the user
  - Maintaining state across UFS calls
- More information provided in “UFS Interfaces”, “Advanced Topics”, “Case Studies”

New Developer's Guide

- First draft (version 0.01) produced in June
- Current version is 0.07
- New title is "Navy Enterprise Application Development Guide"
- Created by a "tiger" team with members from:
  - SPAWAR
  - ISF
  - PEO-IT
  - TF Web DC
  - TF Web Norfolk
- Presentations given today are based on the developer's guide

` Developer's Guide Feedback

- **Your feedback is important and will be considered when creating the next version of the developer's guide**
- **Feedback deadline for next version is COB Friday, July 26**
- **Form for feedback on version 0.07 is available at the Open Source Site:**

  https://tfw-opensource.spawar.navy.mil

- **Next version published in late August or early September**